RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/530,844A
Source: 21/0/06

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,844A

45

75

90

DATE: 03/10/2006 TIME: 10:34:23

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                     Output Set: N:\CRF4\03092006\J530844A.raw
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     6 <120> TITLE OF INVENTION: Feedback-resistant homoserine-Transsuccinylases
having a modified C-
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    10 <130> FILE REFERENCE: Co10221
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/530,844A
C--> 13 <141> CURRENT FILING DATE: 2005-04-08
     15 <160> NUMBER OF SEQ ID NOS: 12
    17 <170> SOFTWARE: PatentIn Ver. 2.0
    19 <210> SEQ ID NO: 1
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    21 <212> TYPE: DNA
    22 <213> ORGANISM: Escherichia coli
    24 <220> FEATURE:
    25 <221> NAME/KEY: CDS
    26 <222> LOCATION: (1)..(930)
    28 <300> PUBLICATION INFORMATION:
    29 <301> AUTHORs: Blattner, F. R.
    30 <302> TITLE: The complete genome sequence of Escherichia coli K-12.
    31 <303> JOURNAL: Science
    32 <304> VOLUME: 277
    33 <305> ISSUE: 533
    34 <306> PAGES: 1453-1474
    35 <307> DATE: 1997
    37 <400> SEQUENCE: 1
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    42 gaa gaa aac gtc ttt gtg atg aca act tct cgt gcg tct ggt cag gaa
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    43
        Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu
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                                          25
        att cgt cca ctt aag gtt ctg atc ctt aac ctg atg ccg aag aag att
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        Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
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52 gaa act gaa aat cag ttt ctg cgc ctg ctt tca aac tca cct ttg cag

57 Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr

60 ccc gca gag cat ctg aac aac ttc tac tgt aac ttt gaa gat att cag

61 Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln

70

85

Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln

gtc gat att cag ctg ttg cgc atc gat tcc cgt gaa tcg cgc aac acg

gat cag aac ttt gac ggt ttg att gta act ggt gcg ccg ctg ggc ctq

35

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58

62

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288

336

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,844A TIME: 10:34:23

DATE: 03/10/2006

Input Set : A:\PTO.ss.txt

Output Set: N:\CRF4\03092006\J530844A.raw

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68	gtg	gag	ttt	aat	gat	gtc	gct	tac	tgg	ccg	cag	atc	aaa	cag	gtg	ctg	384
69	Val	Glu	Phe	Asn	Asp	Val	Ala	Tyr	Trp	Pro	Gln	Ile	Lys	Gln	Val	Leu	
70			115					120					125				
72				aaa													432
73	Glu		Ser	Lys	Asp	His	Val	Thr	Ser	Thr	Leu	Phe	Val	Cys	Trp	Ala	
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77		Gln	Ala	Ala	Leu		Ile	Leu	\mathtt{Tyr}	Gly	Ile	Pro	Lys	Gln	Thr	_	
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80				ctc													528
81	Thr	Glu	Lys	Leu		Gly	Val	Tyr	Glu		His	Ile	Leu	His		His	
82					165					170					175		
84				acg													576
85	Ala	Leu	Leu	Thr	Arg	Gly	Phe	Asp		Ser	Phe	Leu	Ala		His	Ser	
86				180					185					190			
88				gac													624
89	Arg	Tyr		Asp	Pne	Pro	Ala		Leu	TTE	Arg	Asp		Thr	Asp	Leu	
90 92	~~~	a++	195	~~~	~~~		~~~	200	~~~	~~+			205				670
95				gca Ala													672
96	GIU	210	цец	Ата	GIU	1111	215	GIU	GIY	Asp	Ara	220	ьeu	Pne	Ата	ser	
98	222	_	aac	cgc	att	acc		ata	200	aaa	cat		~	+ = +	ant.	aaa	720
99				Arg													720
100	22!		_,,	5		230		·u_		Oly	235		Olu	- y -	АЗР	240	
102			cto	a aca	cac			tto	cac	gat			מככ	gga	cta	gac	768
103	Gli	ı Thi	Lei	ı Ala	Glr	ı Glı	. Phe	Phe	Arc	Ast	Val	Glu	. ala	Glv	Lei	Asp	, 00
104					245					250					255	_	
												•					
106	CC	g gat	gta	a ccg	tat	aac	tat	: ttc	CCC	cac	: aat	: qat	CCC	caa	aat	aca	816
106 107																aca Thr	816
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107	Pro	Ası	val	260	Туг	Asr	туг	Phe	Pro 265	His	s Asr	a Asp	Pro	Glr 270	Asr		816
107 108	Pro	o Asp	Val a gcg	l Pro 260 g ago	Tyr tgg	Ası Jegt	Tyr agt	Phe cac	Pro 265 ggt	His aat	Asr tta	Asp a cto	Pro	Gln 270 acc	Asr aac	Thr	
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107 108 110 111 112 114 115	Pro cc:	o Asp g cga o Arg	y Val a gcg g Ala 275 c tat	Pro 260 g ago a Ser tao	tgg Trr	Asr g cgt o Arg	agt Ser	cac His 280	265 ggt Gly	His aat Asr	tta Leu	Asp cto Lev	Pro ttt Phe 285	Glr 270 acc Thr	aac Asr Asr	tgg Trp	864
107 108 110 111 112 114 115 116	Pro CC Pro Cto	g cga p Arg c aac 1 Asi 290	y Val a gcg g Ala 275 c tat n Tyr	Pro 260 g ago a Ser tao	tgg Trr	g cgt o Arg c tac	agt Ser cag Glr	Cac His 280 ato	265 ggt Gly	His aat Asr	tta Leu	Asp cto Lev	Pro ttt Phe 285 cta	Glr 270 acc Thr	aac Asr Asr	tgg Trp	864 912
107 108 110 111 112 114 115 116 118	Pro CCO Pro Cto Les	g cga o Aro c aac 1 Asi 290	y Val	Pro 260 g ago a Ser tao Tyr	tgg Trr gtc	g cgt o Arg c tac l Tyr	agt Ser cag Glr	Cac His 280 ato	265 ggt Gly	His aat Asr	tta Leu	Asp cto Lev gat Asp	Pro ttt Phe 285 cta	Glr 270 acc Thr	aac Asr Asr	tgg Trp	864
107 108 110 111 112 114 115 116 118	Pro CCO Pro Cto Let aat	C aac Asi 290 C CCC 1 Pro	y Val	Pro 260 g ago a Ser tao	tgg Trr gtc	g cgt o Arg c tac l Tyr	agt Ser cag Glr	Cac His 280 ato	265 ggt Gly	His aat Asr	tta Leu	Asp cto Lev gat Asp	Pro ttt Phe 285 cta	Glr 270 acc Thr	aac Asr Asr	tgg Trp	864 912
107 108 110 111 112 114 115 116 118 119	Processor Cto Let Asi 30!	C aac Asi C aac Asi 290 C CCC	y Val a geg g Ala 275 c tat n Tyr) a acg	Pro 260 g ago a Ser tao Tyr g ctg	tgg: Tyr	g cgt o Arg c tac l Tyr	agt Ser cag Glr	Cac His 280 ato	265 ggt Gly	His aat Asr	tta Leu	Asp cto Lev gat Asp	Pro ttt Phe 285 cta	Glr 270 acc Thr	aac Asr Asr	tgg Trp	864 912
107 108 110 111 112 114 115 116 118 119 120 123	cco Pro cto Len Ass 30!	C ASP C GAC C AAC C AAC C AAC C AAC C Pro C CCA D Pro C CCA	o Vala good Ala 275 c tath Tyr	Pro 260 ago a Ser tac Tyr ctg ctg	tgg tgg Trr gtc Val	g cgt o Arg c tac l Tyr	agt Ser cag Glr	Cac His 280 ato	265 ggt Gly	His aat Asr	tta Leu	Asp cto Lev gat Asp	Pro ttt Phe 285 cta	Glr 270 acc Thr	aac Asr Asr	tgg Trp	864 912
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107 108 110 111 112 114 115 116 118 119 120 123 124 125 126 128	210 210 211 211 211 211 211 2400	C ASP C GG C ACC C ACC C ACC C CC C CC C CC C	A GCS Three Control of the Control o	L Pro 260 g ago a Ser c tac c Tyr g ctg c Leu D NO: H: 30 PRT ISM:	tgg tgg Trg gtc Val gat Asg 2	g cgt g cgt c tac l Tyr taa	agt g Ser c cag c Glr 295	coli	Pro 265 ggt Gly acg	D His	E tta Leu tac Tyr	a ctg a ctg a Leu gat Asp 300	Pro Tttt Phe 285 Cta Leu	Gln 270 acc Thr cgg	Asr aac Asr Cac His	tgg Trp atg Met	864 912
107 108 110 111 112 114 115 116 118 119 120 123 124 125 126 128 129	210 210 211 2210 2210 2400 Met	C ASP C ACC C ACC C ACC D ASP C CC D Pro D SI L > LI C > TY D > SI C > TY	A GCS Three Control of the Control o	L Pro 260 g ago a Ser c tac c Tyr g ctg c Leu D NO: H: 30 PRT ISM:	tgg tgg Trg gtc Val gat Asg 2 9	g cgt g cgt c tac tac tac tac pro	agt g Ser c cag c Glr 295	coli	Pro 265 ggt Gly acg	D His	tta Leu tac Tyr	a ctg a ctg a Leu gat Asp 300	Pro Tttt Phe 285 Cta Leu	Gln 270 acc Thr cgg	Asr aac Asr Cac His	tgg Trp atg Met	864 912
107 108 110 111 112 114 115 116 118 119 120 123 124 125 126 128	210 210 2210 2210 2210 2210 2400 Met	C aacca acca acca acca acca acca acca a	A GCS Ala ACS Three EQ II EQUENCE	L Pro 260 g ago g ago g tao g tao g typ g ctg g teu D NO: H: 30 PRT CSM: NCE: E Arg	tgg tgg Trg gtc Val Asp 2 2 Esch 2	g cgt g cgt c tac l Tyr taa	agt g Ser cag c Gag 295	coli	Pro 265 ggt Gly acg Thr	His aat Asr CCa Pro	E tta Leu tac Tyr	a ctg a ctg a Leu gat Asp 300	Pro Tttt Phe 285 cta Leu	Glr 270 acc Thr Cgg Arg	Asr aac Asr Cac His	tgg Trp atg Met	864 912

PATENT APPLICATION: US/10/530,844A DATE: 03/10/2006

TIME: 10:34:23

Input Set : A:\PTO.ss.txt

Output Set: N:\CRF4\03092006\J530844A.raw

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144
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149 Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu
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    Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
152
153
                                 120
155 Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala
                             135
158 Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
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     Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
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162
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167 Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
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                                 200
170 Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
                             215
                                                 220
173 Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
                         230
174
176 Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
177
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                                         250
179 Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
180
                 260
                                     265
182 Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
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    Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met
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186
        290
                             295
190
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191 305
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209 <212> TYPE: DNA
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PCR

RAW SEQUENCE LISTING DATE: 03/10/2006 PATENT APPLICATION: US/10/530,844A TIME: 10:34:23 Input Set : A:\PTO.ss.txt Output Set: N:\CRF4\03092006\J530844A.raw 212 <220> FEATURE: 213 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for PCR 216 <400> SEQUENCE: 4 217 ctggtggata tatgagatct ggtagacgta atag 34 220 <210> SEQ ID NO: 5 221 <211> LENGTH: 33 222 <212> TYPE: DNA 223 <213> ORGANISM: Artificial Sequence 225 <220> FEATURE: 226 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for PCR 229 <400> SEQUENCE: 5 230 tggtggatat atgagatctg gtagacgtaa tag 33 233 <210> SEQ ID NO: 6 236 <211> LENGTH: 34 237 <212> TYPE: DNA 238 <213> ORGANISM: Artificial Sequence 240 <220> FEATURE: 241 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for PCR 244 <400> SEQUENCE: 6 245 gtatttgtta gtgaataata gtactgagct ctgg 34 248 <210> SEQ ID NO: 7 249 <211> LENGTH: 33 250 <212> TYPE: DNA 251 <213> ORGANISM: Artificial Sequence 253 <220> FEATURE: 254 <223> OTHER INFORMATION: Description of Artificial Sequence: Changes in Met A structural gene 256 <400> SEQUENCE: 7 257 tcatatatcc accagctatt tgttagtgaa taa 33 260 <210> SEQ ID NO: 8 261 <211> LENGTH: 10 262 <212> TYPE: PRT 263 <213> ORGANISM: Artificial Sequence 265 <220> FEATURE: 266 <223> OTHER INFORMATION: Description of Artificial Sequence: Changes in protein encoded by altered Met A structural 267 268 gene 270 <400> SEQUENCE: 8 271 Ser Tyr Ile His Gln Leu Phe Val Ser Glu 275 <210> SEQ ID NO: 9 276 <211> LENGTH: 102 277 <212> TYPE: DNA 278 <213> ORGANISM: Artificial Sequence 280 <220> FEATURE: 281 <223> OTHER INFORMATION: Description of Artificial Sequence: Changes in Met A structural gene 285 <400> SEQUENCE: 9 286 tcatatatcc accactattt gttaqtqaat aataqtactg agctctqqat qcatacqcqt 60

288 ttaattaagc ggccgcactg cgatgagtgg cagggcgggg cg _____291 <210> SEQ ID NO: 10

102

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DATE: 03/10/2006
                    PATENT APPLICATION: US/10/530,844A
                                                            TIME: 10:34:23
                    Input Set : A:\PTO.ss.txt
                    Output Set: N:\CRF4\03092006\J530844A.raw
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    299
              gene
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     342 Met His Thr Arg Leu Ile Lys Arg Pro His Cys Asp Glu Trp Gln Gly
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     345 Gly Ala
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/10/2006
PATENT APPLICATION: US/10/530,844A TIME: 10:34:24

Input Set : A:\PTO.ss.txt

Output Set: N:\CRF4\03092006\J530844A.raw

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The rules require that a line not exceed 72 characters in length. This includes spaces.

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VERIFICATION SUMMARYDATE: 03/10/2006PATENT APPLICATION: US/10/530,844ATIME: 10:34:24

Input Set : A:\PTO.ss.txt

Output Set: N:\CRF4\03092006\J530844A.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date